

FY99 AMIP PROJECT IMPLEMENTATION PLAN

PROJECT TITLE: Army Object Standards Development

PROGRAM FUNDING: AMIP

SPONSORING AGENCY: US Army Materiel Systems Analysis Activity

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OBJECTIVE OF PROJECT: The Object Management Standard Category (OMSC) members will research, design, and document objects for use as standards in Army model and simulation. Activities to be conducted are

- Object development:
 - Environment Objects
 - Simulation Services Objects
 - Logistics Support Services Objects
 - Behavior Framework/Object Integration
- Linkage of Platform and Unit Objects to standard algorithms
- Update of OMSC website to allow easy navigation of objects, object methods, object definitions, and access to standard algorithm sources

PRODUCTS/DELIVERABLES AND ESTIMATED COMPLETION DATES:

The following reports will include a description of the object, object metadata, and object definitions.

- Environment Objects Report (Phase 1) Jun 99
- Behavior Framework/Object Integration Report Jun 99
- Simulation Services Objects Report (Phase 1) Jul 99
- Logistics Services Support Objects Report (Phase 1) Aug 99
- Platform Object Std Algm Reference Report Aug 99
- Unit Object Std Algm Reference Report Aug 99
- Updated website for object access Dec 98/
Sep 99

PROJECT FUNDING INFORMATION:

\$K	Prior Funding & Source	FY99 OMA	FY99 OPA	FUTURE FUNDING	PROJECT TOTAL
AMIP Funds	0	125	0	0	125
AMSAA	0	25	0	0	25
ARL	0	10	0	0	10
TRAC-FLVN	0	10	0	0	10
TRAC-WSMR	0	10	0	0	10
STRICOM	0	10	0	0	10
TOTAL	0	190	0	0	190

TECHNICAL APPROACH:

Based on the component-based OMSC design philosophy, this effort will develop functional definitions of objects that are robust and reusable by different simulation applications. The approach resembles the model-test-model methodology used by the M&S community. Specifically, this project will first develop a set of objects, object methods, and object metadata proposed for M&S community use (see following list). The draft object will then be coordinated with representatives of the M&S community to obtain consensus (i.e., the OMSC, the M&S Policy and Technology Working Group, and the Army M&S Standards Categories). Finally, the draft objects will be documented via a technical report and submitted to SNAP for approval and entry into ASTARS. Additionally, objects developed by other activities will be reviewed as potential object standards. The following will be addressed in this AMIP proposal:

- New object development:
 - Environment Object: comprised of Terrain, Atmos, Space, and Ocean Object;
 - Simulation Services Objects: represents functions such as the Simulation Engine, Simulation Management, Event Mangers, etc.;
 - Logistics Support Services Objects: represents assembly points, maintenance facilities, etc.
 - Behavior Framework/Object Integration: classification and integration of the manner in which behavior, from individual soldiers up to command level, are integrated in Army standard objects (i.e., elemental instruction sets, combat instruction sets, and command decision modeling sets)
- Linkage of Platform and Unit Object methods to standard algorithms: this will provide documentation on the standard algorithms and algorithm sources necessary to execute the Platform and Unit object methods. If standard algorithms cannot be found, a SNAP Standard Requirement Document will be submitted.
- Updated website that will list objects, object methods, object definition, and standard algorithm references.

MILESTONES:

	O	N	D	J	F	M	A	M	J	J	A	S
Environ Objects	←								→			
Simulation Services Objects	←								→			
Logistic Support Services Objects			←						→			
Behavior Frame	←								→			
Platform/Unit Obj Alg Links			←					→				
Update Website									←			→